INTERNATIONAL SEARCH REPORT

Internati Application No PCT/IB2005/050160

		. PC	T/IB2005/050160
A. CLASSIF IPC 7	F16F15/027 G03F7/20		
According to	International Patent Classification (IPC) or to both national classification	on and IPC	·
B. FIELDS			
	cumentation searched (classification system followed by classification	symbols)	
IPC 7	F16F G03F	·	
Documentati	on searched other than minimum documentation to the extent that suc	h documents are included	In the fields searched
Electronic da	ata base consulted during the International search (name of data base	and, where practical, search	ch terms used)
	ternal, PAJ, WPI Data		
 FLO_1111	Lernar, IAO, WII Data	•	•
-			
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.
Χ.	US 5 823 307 A (SCHUBERT ET AL) 20 October 1998 (1998-10-20) column 1, lines 8-21		1-10
	column 1, lines 65,66		
	column 24, line 41 - column 25, li	ine 4	
	column 5, lines 30-48	,	
	figures 1,17		
А	US 6 193 206 B1 (YASUDA MASASHI ET 27 February 2001 (2001-02-27) column 1, lines 40-42	ΓAL)	1,6,7
	column 2, lines 26-35; figures 1,6	5	
x	US 5 631 506 A (PADEN ET AL)		1-10
	20 May 1997 (1997-05-20) column 8, line 27 - column 9, line	e 28	
	figure 7		
1		,	
ŀ]. ————————————————————————————————————	/	
X Fun	ther documents are listed in the continuation of box C.	X Patent family mem	bers are listed in annex.
° Special ca	alegorles of cited documents:	T later document mublishe	ed after the international filing date
A docum	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not cited to understand the invention	e principle or theory underlying the
'E' earlier filing		haidhighna ad tonnea	relevance; the claimed invention novel or cannot be considered to
"L" docum	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another	involve an inventive st The document of particular	ep when the document is taken alone relevance; the claimed invention
citatio	on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or	cannot be considered document is combined	to involve an inventive step when the the third with one or more other such docu-
other	means	ments, such combinat in the art.	ion being obvious to a person skilled
'P" docum later	nent published prior to the international filing date but than the priority date claimed	*&* document member of ti	والمستهد والمستهدي والمستهدي والمستهد
Date of the	actual completion of the international search	Date of mailing of the li	nternational search report
	24 March 2005	05/04/200	5

Authorized officer

Fritzen, C

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tei. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016

Name and mailing address of the ISA

INTERNATIONAL SEARCH REPORT

Interna Application No
PCT/IB2005/050160

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT		Indianalis and
ategory •	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to chaim No.
	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 12, 3 January 2001 (2001-01-03) -& JP 2000 249185 A (FUJITA CORP; TOKKYOKIKI CORP), 12 September 2000 (2000-09-12) abstract; figure 1		
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INTERNATIONAL SEARCH REPORT

Internati upplication No PCT/IB2005/050160

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5823307	A	20-10-1998	US	5660255 A	26-08-1997
		·	BR	9501432 A	19-12-1995
			CA	2146200 A1	05-10-1995
			DE .	69509819 D1	01-07-1999
			DE	69509819 T2	13-01-2000
			EP	0676558 A1	11-10-1995
			IL	112765 A	10-03-1998
			JP	8054039 A	27-02-1996
			KR	162280 B1	01-12-1998
US 6193206	B _. 1	27-02-2001	JP	11230246 A	27-08-1999
US 5631506	Α	20-05-1997	NONE		
JP 2000249185	Α	12-09-2000	NONE	ے سے میں ایک سے میں کرنے میں میں بنی نہیں ہیں ہیں	

VIII-2-1 Declaration: Entitlement to apply and be granted a patent Declaration as to the applicant's entitlement, as at the international fidate, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a in a case where the declaration und Rule 4.17(iv) is not appropriate:	in relation to this international application
Name (LAST, First)	KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1(i i)	KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled as employer of the inventor, WARMERDAM, Thomas, P., H.
VIII-2-1(i i)	KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled as employer of the inventor, VERVOORDELDONK, Michael, J.
VIII-2-1(i This declaration is made for the purposes of:	all designations except the designation of the United States of America

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

· (PCT Rule 44bis)

Applicant's or agent's file reference PHNL040088WO	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/IB2005/050160	International filing date (day/month/year) 14 January 2005 (14.01.2005)	Priority date (day/month/year) 26 January 2004 (26.01.2004)	
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237		
Applicant KONINKLIJKE PHILIPS ELECTRO	ONICS N.V.		

			·
1.	This international preliminary re International Searching Authori	eport on patentability (Chapter ty under Rule 44 bis.1(a).	I) is issued by the International Bureau on behalf of the
2.	This REPORT consists of a total	al of 6 sheets, including this co	ver sheet.
	In the attached sheets, any refer to the international preliminary	rence to the written opinion of the report on patentability (Chapte	he International Searching Authority should be read as a reference r I) instead.
3.	This report contains indications	relating to the following items	
	Box No. I	Basis of the report	·
٠	Box No. II	Priority	
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under applicability; citations and	Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the inter	national application
	Box No. VIII	Certain observations on th	e international application
4.	The International Bureau will on not, except where the applicant date (Rule 44bis .2).	communicate this report to desi t makes an express request und	gnated Offices in accordance with Rules 44his.3(c) and 93his.1 but er Article 23(2), before the expiration of 30 months from the priority
<u> </u>			
			Date of issuance of this report 27 July 2006 (27.07.2006)
	The International But 34, chemin des Co 1211 Geneva 20, S	olombettes	Authorized officer Cecile Chatel
Facsi	mile No. +41 22 338 82 70		e-mail: pt13@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

REC'D 0 1 APR 2005

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From the INTERNATIONAL SEARCHING AUTHORITY

see form PCT/ISA/220

To:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING, AUTHORITY (PCT Rule 43bis.1)

Date of mailing

(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference see form PCT/ISA/220

FOR FURTHER ACTION

See paragraph 2 below

International application No. PCT/IB2005/050160

International filing date (day/month/year)

Priority date (day/month/year)

26.01.2004

International Patent Classification (IPC) or both national classification and IPC F16F15/027, G03F7/20

Applicant

KONINKLIJKE PHILIPS ELECTRONICS N.V.

 This opinion contains indications relating to the following 	items:
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- Box No. Ⅰ
- Basis of the opinion
- ☐ Box No. II
- **Priority**
- Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. III ☐ Box No. IV
- Lack of unity of invention
- Box No. V

Reasoned statement under Rule 43bis.1(a)(l) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- ☐ Box No. VI Box No. VII
- Certain documents cited Certain defects in the international application

14.01.2005

Box No. VIII Certain observations on the international application

FURTHER ACTION 2.

If a demand for International preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

Authorized Officer

European Patent Office D-80298 Munich

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Fax: +49 89 2399 - 4465

Telephone No. +49 89 2399-



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International application No. PCT/IB2005/050160

	Box		
1.	With the la	reg ang	pard to the language, this opinion has been established on the basis of the international application in uage in which it was filed, unless otherwise indicated under this item.
		lang (un	s opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search der Rules 12.3 and 23.1(b)).
2.	With nece	reç ess	gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. ty	pe	of material:
	C]	a sequence listing
		3	table(s) related to the sequence listing
	b. fo	rm	at of material:
	C	ב	in written format
	5	3	in computer readable form
•	c. ti	me	of filing/furnishing:
	. [contained in the international application as filed.
	Į.		filed together with the international application in computer readable form.
	1		furnished subsequently to this Authority for the purposes of search.
3	3. □	ha Co	addition, in the case that more than one version or copy of a sequence listing and/or table relating theretons has been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.
	4. Ad	diti	onal comments:

International application No. PCT/IB2005/050160

Box No. V Reasoned statement under Rule 43*bis*.1(a)(l) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-10

Inventive step (IS)

Yes: Claims

No:

Claims

1-10

Industrial applicability (IA)

Yes: Claims

No: Claims

1-10

2. Citations and explanations

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Re Item V.

1

1 Reference is made to the following documents:

D1: US 5 823 307 A (SCHUBERT ET AL) 20 October 1998 (1998-10-20)

D2: US 5 631 506 A (PADEN ET AL) 20 May 1997 (1997-05-20)

D3: US-B1-6 193 206 (YASUDA MASASHI ET AL) 27 February 2001 (2001-02-27)

2 INDEPENDENT CLAIM 1

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

Document D1, see particularly figures 1,17 and related text passages, discloses all features of claim 1, namely:

An active vibration isolation system arranged to isolate a payload (Mp) from earth movements, said payload (Mp) being supported by means of at least one spring (32), said system comprising a sensor for sensing a displacement of said payload (26) and generating a displacement signal, a controller (28) for receiving said displacement signal and generating a

control signal based on said displacement signal, and an actuator (12) arranged to generate an actuation force based on said control signal, wherein said system comprises a mass (Ms) supporting said payload (Mp), said sensor is arranged to sense a displacement of said payload (Mp) relative to said mass, and said actuator is arranged to apply said actuating force to said mass (Ms), such that said payload (Mp) is used as an inertial reference mass.

The applicant should note that the subject matter of claim 1 is also not new over the disclosure of D2.

3 INDEPENDENT CLAIM 9

3.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 9 is not new in the sense of Article 33(2) PCT.

Document D1 discloses all features of claim 9, namely:

International application No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

1

PCT/IB2005/050160

A method of active vibration isolation to isolate a payload (Mp) from earth movements, comprising:

- supporting said payload (Mp) by means of at least one spring (32),.
- providing a sensor for sensing a displacement of said payload (26) and generating a displacement signal,
- generating an actuation force based on said control signal,
- supporting said payload (Mp) by a mass (Ms),
- sensing a displacement of said payload (Mp) relative to said mass, and
- applying said actuating force on said mass (Ms), such that said payload (Mp) is used as an inertial reference mass.

4 DEPENDENT CLAIMS 2-8, 10

Dependent claims 2-8, 10 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

The additional features of claims 2-5,8 and 10 are known per se from document D1. The additional features of claims 6 and 7 concern a selection of parameters as commonly known in the art (see e.g. document D3, column 1, lines 40-42).

Re Item VII.

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 or D2 is not mentioned in the description, nor are these documents identified therein.

PATENT COOPERATION TREATY

REC'D 0 1 APR 2005

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From the INTERNATIONAL SEARCHING AUTHORITY

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing

(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference see form PCT/ISA/220

FOR FURTHER ACTION

See paragraph 2 below

International application No. PCT/B2005/050160

International filing date (day/month/year)

Priority date (day/month/year)

26.01.2004

International Patent Classification (IPC) or both national classification and IPC F16F15/027, G03F7/20

Applicant

۲,

To:

KONINKLIJKE PHILIPS ELECTRONICS N.V.

1.	This opinion contains indications relating to the following items:			
	⊠ Box No. I	Basis of the opinion		

Box No. II **Priority**

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III

☐ Box No. IV

Lack of unity of invention

☑ Box No. V

Reasoned statement under Rule 43bis.1(a)(l) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Certain documents cited ☐ Box No. VI

Box No. VII

Certain defects in the international application

14.01.2005

Box No. VIII Certain observations on the international application

FURTHER ACTION 2.

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

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For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220. 3.

Name and mailing address of the ISA:

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European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465



International application No. PCT/IB2005/050160

	Box No	o. I Basis of the opinion
1.	With re	gard to the language, this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
	lar (ui	is opinion has been established on the basis of a translation from the original language into the following anguage , which is the language of a translation furnished for the purposes of international search and 23.1(b)).
2.	With renecess	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. forn	nat of material:
		in written format
		in computer readable form
	c. time	e of filing/furnishing:
	. 🗅	contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
:	h	n addition, in the case that more than one version or copy of a sequence listing and/or table relating there has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4	4. Addit	ional comments:

International application No. PCT/IB2005/050160

Box No. V Reasoned statement under Rule 43*bis*.1(a)(l) with regard to novelty, inventive step or Industrial applicability; citations and explanations supporting such statement

1. Statement

1

Novelty (N)

Yes: Claims

No: Claims

1-10

Inventive step (IS)

Yes: Claims

No:

Claims

1-10

Industrial applicability (IA)

Yes: Claims

No: Claims

1-10

2. Citations and explanations

see separate sheet

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see separate sheet

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D2: US 5 631 506 A (PADEN ET AL) 20 May 1997 (1997-05-20)

D3: US-B1-6 193 206 (YASUDA MASASHI ET AL) 27 February 2001 (2001-02-27)

2 INDEPENDENT CLAIM 1

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The applicant should note that the subject matter of claim 1 is also not new over the disclosure of D2.

3 INDEPENDENT CLAIM 9

3.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 9 is not new in the sense of Article 33(2) PCT.

Document D1 discloses all features of claim 9, namely:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

1

PCT/IB2005/050160

A method of active vibration isolation to isolate a payload (Mp) from earth movements, comprising:

- supporting said payload (Mp) by means of at least one spring (32),.
- providing a sensor for sensing a displacement of said payload (26) and generating a displacement signal,
- generating an actuation force based on said control signal,
- supporting said payload (Mp) by a mass (Ms),
- sensing a displacement of said payload (Mp) relative to said mass, and
- applying said actuating force on said mass (Ms), such that said payload (Mp) is used as an inertial reference mass.

4 DEPENDENT CLAIMS 2-8, 10

Dependent claims 2-8, 10 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

The additional features of claims 2-5,8 and 10 are known per se from document D1. The additional features of claims 6 and 7 concern a selection of parameters as commonly known in the art (see e.g. document D3, column 1, lines 40-42).

Re Item VII.

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 or D2 is not mentioned in the description, nor are these documents identified therein.